## LITHOLOGIC LOG

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LOCATION MAP:
700-D-186 700 AREA LANDFILL
700-A-2535
SE 1/4 NW 1/4 SW 1/4 NE 1/4 S 26 T 20S R 3E

to 16"; 10" x 54' steel surface casing; 54'-194' drilled air-LOCATION DESCRIPTION: foam 9 7/8" bit; 194'-205' with 9" air hammer bit; Bedrock encountered ≈180;. TD = 205'

	ATTOM DESCRIPTION: 16		1	hammer bit; f	Bedrock encountered ≈180;. TD = 205'
Depth	Visual % Li	Drilling Time th Scale: min	Sample Type and Interval		Lithologic Description
5	0000=== -//+	7	Cuttings 0'-205'	0'- 180(?)	ALLUVIUM (Santa Fe Group): Multiple colors of cuttings; washed cuttings are predominantly medium light gray (N6) to dark gray (N3); unwashed samples contain pale reddish brown (10 R 5/4) to moderate red (5 R 5/4) silt and clay. Cuttings range in size from silt-size to 25 mm (1
10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9			inch) with a average size of 5 mm (0.20 inches). Cuttings are subrounded to angular with a larger percentage being subrounded. Alluvium is unconsolidated to
15	+++ >> ////, =	10			well consolidated, poorly-sorted pebble to boulder conglomerate containing clasts of very light gray (N8) to grayish black (N2) limestone and dolomite; dark reddish brown (10 R 3/4) to dusky red (5 R 3/4) siltstone; white (N9) to dirty white iron-
20	+++vv///o=	12			staining rhyolite; translucent to milky white quartz; moderate reddish brown (10 R 4/6) granite; light brown (5 YR 5/6) to moderate brown (5 YR 4/4) sandstone: light
25	+++vvv///:== 0,a	15			olive gray (5 Y 3/2) & dusky red (5 R 3/4) porphyritic andesite. The upper 5 feet of this section is caliche rich and contains the above mentioned clasts and light brown (5 YR 6/4) silt and clay. From 5 feet to 165 feet limestone is the predominant
30	+++~~///// =	20	1		clast. Samples are reddish brown from silt and clay particles weathering from the Abo and Love Ranch formations. Cuttings of the Abo siltstone are also
35	+++vvv///=-	12			abundant throughout this interval and range from 10% to 40% of sample. From 166 feet to the top of bedrock (between 180' & 185') the alluvium is well consolidated and drilling rates are similar to that of the bedrock. Clast are mostly limestone
40	<del>++++</del> • • • • • • • • • • • • • • • • •	7			and are subrounded to subangular. Caliche coatings are present on some of the clasts and small pieces of caliche are individual cuttings. Caliche described is the carbonate matrix containing silt and sand
45	++++	12		0'-5'	grains between the alluvial clasts.  Light brown clay (5 YR 6/4).
50	+++vvv////:=	13		5'~166'	Moderate red (5 R 5/4) to pale reddish (10 R 5/4) brown clay & silt.

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Depth	Visual % Lith	Orilling Time Scale: min	Sample Type and Interval	Lithologic Description
	0 . 6 .		Cuttings (cont'd)	
50	+++~~			
55	++++	30		
60	++++	5		
65	+ + + + + / / / / / V V ! ]	9		
70	++++///vv:	10		
75	+++////vv·1	7		
30	1+++////vv: °	8		
35	++++////vv.fca	6		85'-100' Mostly coarse sand-size with some gravel- size cuttings.
90		6		
95	4+4+///vv:	13		
00	4+47777000.0	2.5		100'-105' Slightly more gravel but still mostly coarse sand.
05	++++//////	5		105'-110' Mostly coarse sand-size cuttings.
10	++++//////	6		110'-180' Mostly gravel-size cuttings.
15	+++/////V	7		

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Dept	n Visual % <u>L</u> ith	Drilling Time Scale: min	Sample Type and Interval	Lithologic Description
115	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Cuttings (cont'd)	
120	++++///////	6		
125	++++/////	5		
130	111111111	5		
135	+++++	4		
140	++++++///٧٧	5		
145	+++++	7		
150	++++++	5 .		
155	++++++	4		
160	++++++vv//	5		
165	+++++++	5		166'-180' Alluvium is well consolidated; cuttings
170	++++++vvo/	19		are subrounded to angular; possible minor amounts of silica replacement of limestone.
175	+++++++	12		
180	+++++++/ <b>D</b> M	12		